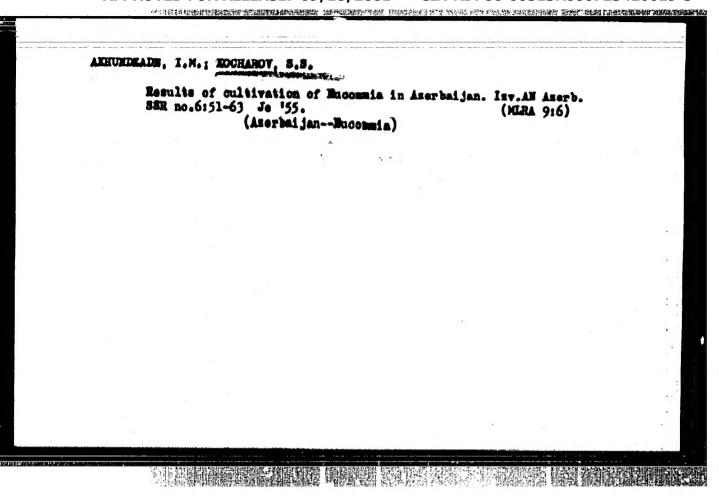
9AGIRYAN, G.V.; VASIL'YEV, V.G.; GORBENKO, G.L.; MIRONCHEV, Yu.P.; KOCHARDV, S.M.
Oil and gas fields of Siberia. Neftegaz.geol. i geofiz. no.1:4-9
(65. (MIRA 18:5)

1. Gosudarstvennyy geologicheskiy komitet RSFSR i Vsesoyuznyy
nauchno-issledovatel'skiy institut prirodnogo gaza.



SHAKHWAZAROV, Mikoley Semeonovich. Prinimeli uchestiye: ABRANTAM, S.A.; IBRAGINOV, B.G.; KOCHAROT, S.S.; MARTIROSOV, G.A.; MIRTCHYAM, R.A. MUSTAFAYEVA, S., red.; MIRKISHIYEVA, S., tekhn.red.

[The Magorno-Karabakh Autonomous Province] Magorno-Karabakhakaia avtonomnaia oblast'. Baku, Azerbaidshanskoe gos.izd-vo, 1960. 85 p. (MIRA 13:12)

1. Pervyy sekretar' Magorno-Karabakhskogo obkoma Kommunisticheskoy partii Aserbaydshana (for Shakhnasarov).
(Magorno-Kafabakh Autonomous Province)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723420019-3"

KOCHAROV, V.A.; KOLOSOV, S.K.

Wasteless fabric layout for garsent cutting. Leg.pros. 17
no.8144-45 Ag '57. (MIRA 10:10)

1.Direktor savoda No.3: (for Kocharov). 2.Hachal'nik eksperimental'nogo tsekha (for Kolosov).

(Garment cutting)

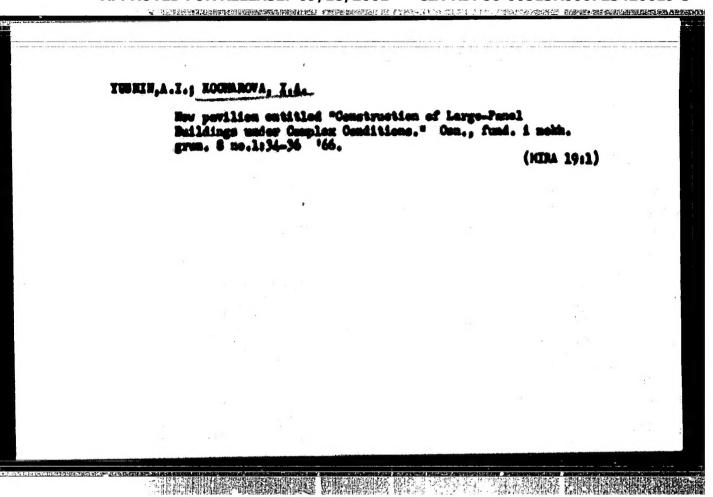
DOSICHEV, To. A.; KOCHAROVA, A. I.

Pros and cons of psoriasine. Vest. derm. 1 ven. no.3:55-59 '62.

(MIRA 15:6)

1. Dermatologicheskaya gruppa AMN SSSR pri chlene-korrespondente
P. V. Koshevnikove.

(MISTARD GAS) (PSORIASIS)



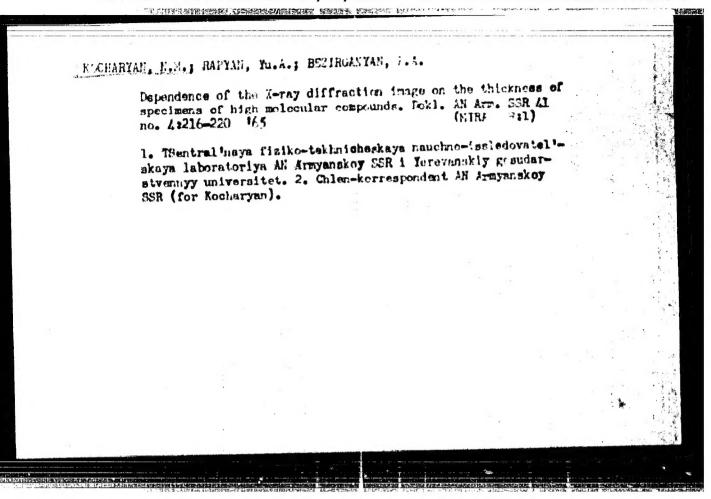
KOCHARYAN, N.M.; PACHADZHTAN, Kh.B.; HALBANDYAH, N.A.; AGARONYAN, A.A.

Physical properties of polymethylmethacrylate. Dokl. AN Arm. SSR 40 no.3:145-150 \*65. (MIRA 18:12)

1. TSentral'naya nauchno-issledovatel'skaya fiziko-tekhnicheskaya laboratoriya AN ArmSSR. 2. Chlen-korrespondent AN ArmSSR (for Kocharyan). Submitted July 12, 1964.

TO PERSONAL PROPERTY OF THE PR

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723420019-3"



NADGERIYEV, M.K., dotsent; KOCHEGAROV, A.A., kand.med.nauk; SHISHLOV, V.I.

Problems in the diagnosis and treatment of suppurative diseases of the lungs. Sov.med. 28 no.12:14-18 D \*65.

(MIRA 18:12)

1. Klinika obshchey khirurgii (sav. - dotsent M.K.Madgeriyev) i klinika gospital\*noy terapii (sav. - dotsent S.G.Salimov) Blagoveshchenakogo meditsinskogo instituta.

KCCHPOVA, Sn. F.

Velitekov, A. A. and Kocharova, Sh. M. "Gentral scientific research latoratories in the Azneft' /ield", Azerbaydzh. neft. khoz-vc, 1948, .o. 12, p. 10-11.

So: N-1201, 1 April 53, (Letopis 'Zhurnal 'nykl: Statey, No. 12, 1949).

ニャニ は、仏社の変更製造や対す場所を 機能の特殊の事業等。 発えられて呼ばる ・・ハ マ

# ABRAHYAN, A.A.; KOCHARYAN, A.A.

Simultaneous microdetermination of carbon, hydrogen, and sulfur in organic compounds. Isv. AN Arm, SSR. Khim, nauki 17 no. 3: 301-305 \*64. (MIRA 17:7)

1. Institut organicheskoy khimii AH Armyanakoy SSR.

Koch May Ma., Kintan, N.O.; Rocharta Andrews.

Properties of trivalent manganese. Isv. An Ars. SSR Ser. khis.
nauk 10 no.22105-115 '57. (NIRk 10:12)

1. Terevanskiy gosudarstvennyy universitet im. V.N. Molotova.
(Nanganese)

SOV/137-59-1-2123

Translation from: Referativnyy zhurnal. Metallurgiya, 1959, Nr 1, p 278 (USSR)

AUTHOR: Kocharyan, A. I.

TITLE. Determination of Aluminum by the Chirkov Method in the Presence of

Titanium (Opredeleniye alyuminiya po Chirkovu v prisutstvii titana)

in Armenian

PERIODICAL: Sb. stud. nauchn. tr. Yerevansk. un-t, 1958, Nr 8, pp 197-203

ABSTRACT: In order to eliminate the impeding influence of Ti4+ in the electro-

metric determination of Al, the authors propose first to reduce the Ti4+ to Ti3+ with powdered Zn.

B. M.

Card 1/1

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723420019-3" MANUFLYAN, M.Q.; KRHOYAN, T.V.; YEGANYAN, A.G.; KOCHARYAN, A.M.

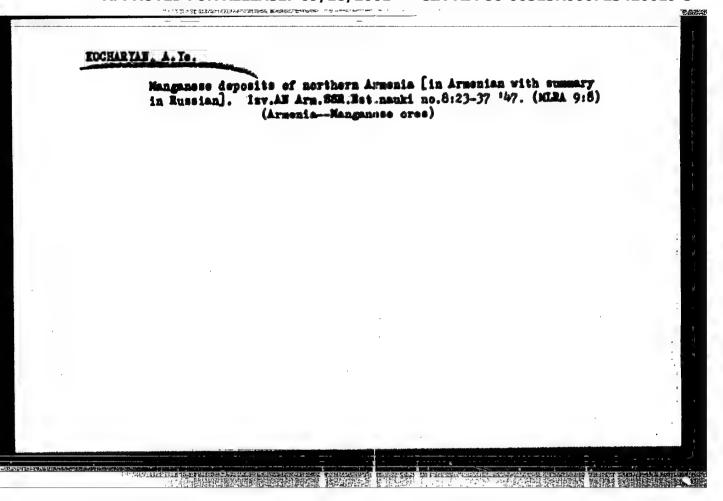
Micetric conductivity of concentrated sedium and petassium hydroxide selutions, their carbonates, and MaCH--MDH mixtures at 25°C.

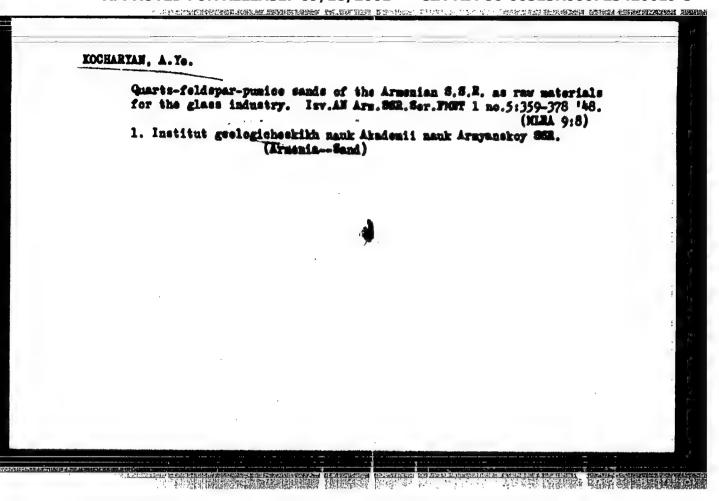
Isv. AN Arm. SER. Ser. FIGHT mank 8 no.4173-79 J1-Ag 155. (NGA 912)

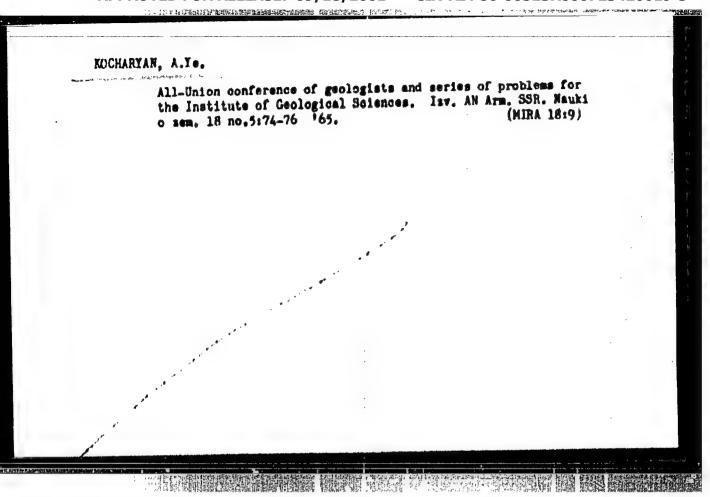
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1. Thimicheekiy institut AN Armyauskey SSR. (Sedium hydrexide--Blectric preparties) (Petassium hydrexide--Blectric preparties)

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USSR/Phys		ry - Solutions. of Acids and Bases	<b>B</b>	<b>-11</b>
Abs Jour	: Reforat	Thur - Khimiya, No 2, 1957,	3913	
Author		an M.G., Krmoyan T.W., Yespan	an A.C., Kocharyan	
Inst Title	: Effect o	of Sciences Armenian SSR - of Tomperature on Cundictance of Hydroxides and Carbona 20.	of Concentrated	
Orig Pub		AftrSER, ser. fizinten., y , No 2, 3-12.	estestv. i tekhn. n	••
Abstract	tions of hydroxides and combonates of sium were determined within the temper 25-85°. At high temperatures rate of and K <sup>+</sup> ions in concentrated solutions about the same, which the nuthors expl		of sodium and potas parature interval o of movement of Ha+ ns of HaCH and KCH	f is
Card 1/2	•	- 171 -		







COCHAR JAN.

GABRILOVICE, A.B.; VILKOVA, V.F.; KOCHAR'YAN, D.E.

Refect of aeration upon the propagation of drentery bacteriophage.

Emir.mikrobiol.epid.i immun. no.4:80 Ap 154. (NCRA 7:5)

1. Is Rostovskogo-na-Donn instituta epidemiologii i mikrobiologii.

(Dysentery) (Bacteriophagy)

KOCHARYAN, E., insh.; LIKHTTAROVA, R., insh.

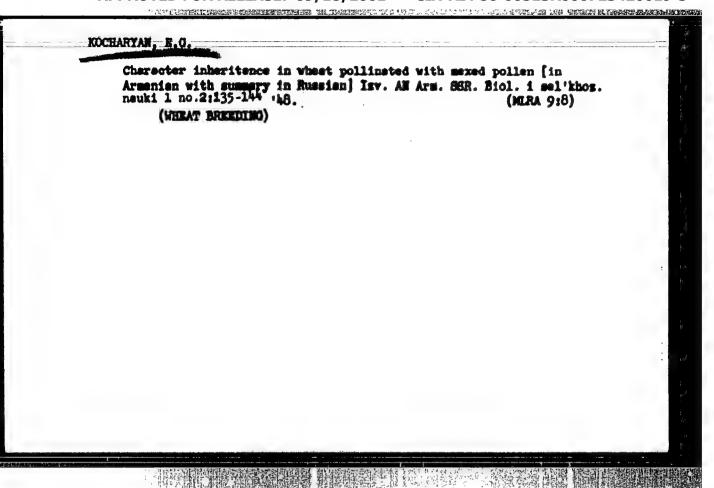
Precision casting. Prom.Arm. 4 no.12:45-48 D '61. (KURA 15:2)

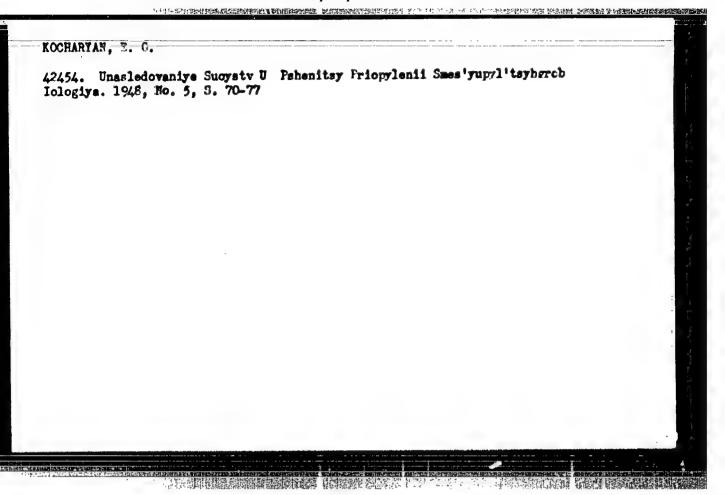
(Armenia—Precision casting)

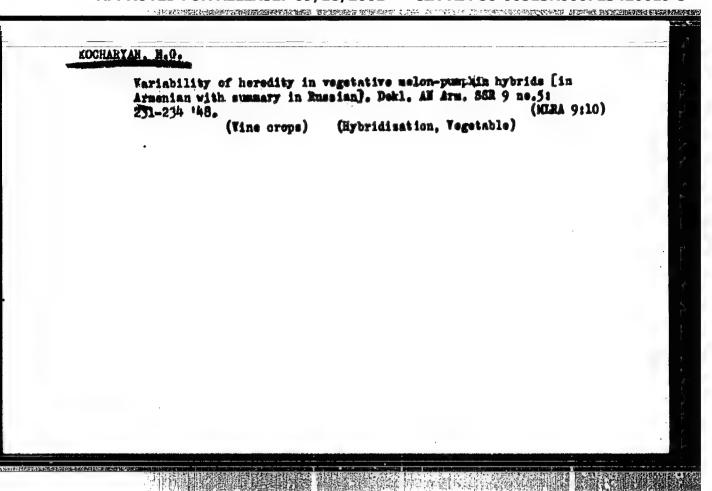
BATIKYAN, G.G.; KOCHARYAN, M.G.

Harly ripening variety of wheat obtained by hybridisation. Isv.AN Arm. SSR. Net. nauki no.7:53-58 '47'. (MLRA 9:8)

1. Institut genetiki rasteniy Akademii nauk Armyanskoy SSR. (Wheat) (Hybridization, Vegetable)







BATIKYAN, O.O.; KOCHARYAN, E.O.

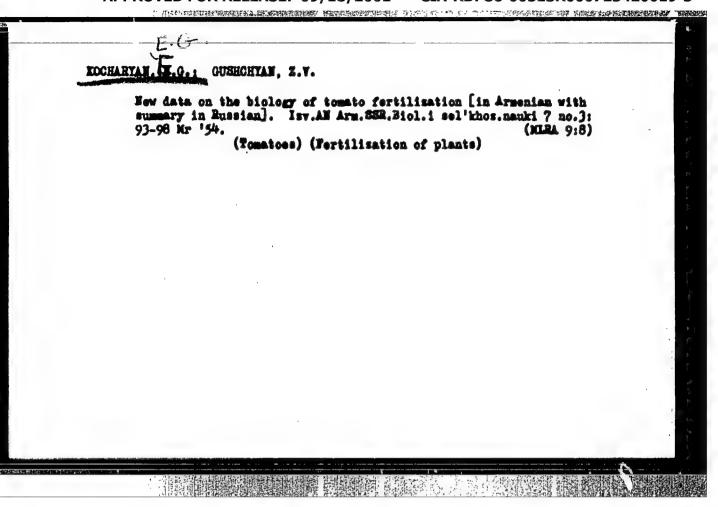
A vegetative hybrid between the melon and the pumphin. Isv.AN Arm.
SSR.Biol.i sel'khos.nauki. 2 no.1:97-100 '49. (MLA 9:8)

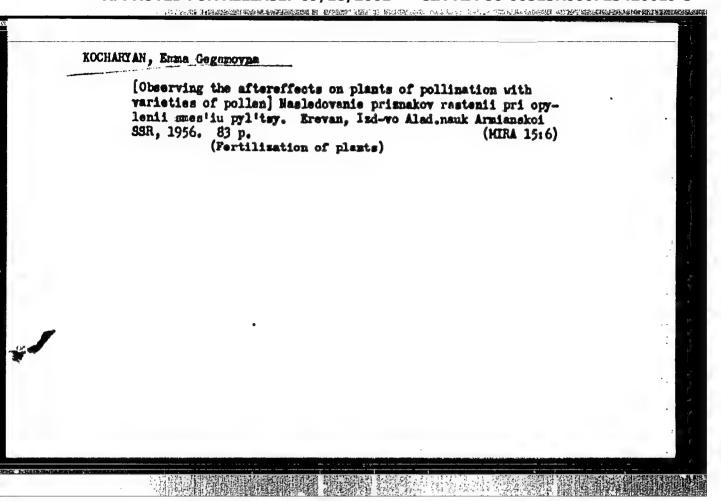
1. Institut genetiki i selektsii rasteniy Akademii nauk Armyanskoy SSR.

(VINE CROPS) (GRAFTINO)

### KOCHARYAN, M.G.

Effect of mixed wheat pollen on the productivity of the ear. Izv.
AN Arm.SSR. Biol. i sel'khoz. nauki 2 no.3:299-301 4-9. (MIPA 9:8)
(WHMAT BRENDING)

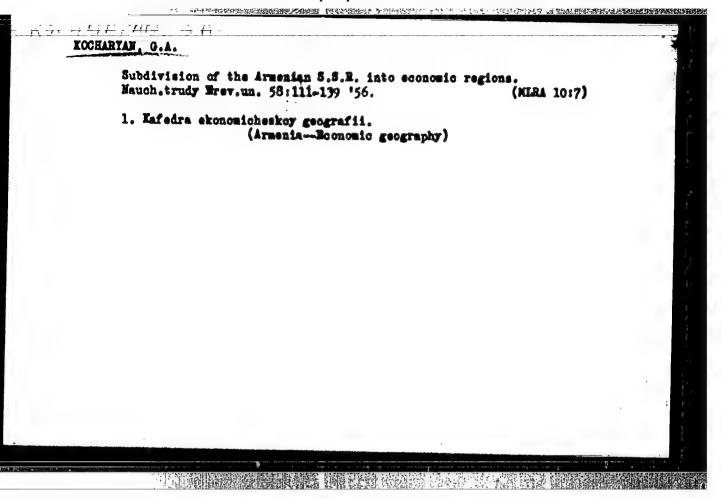


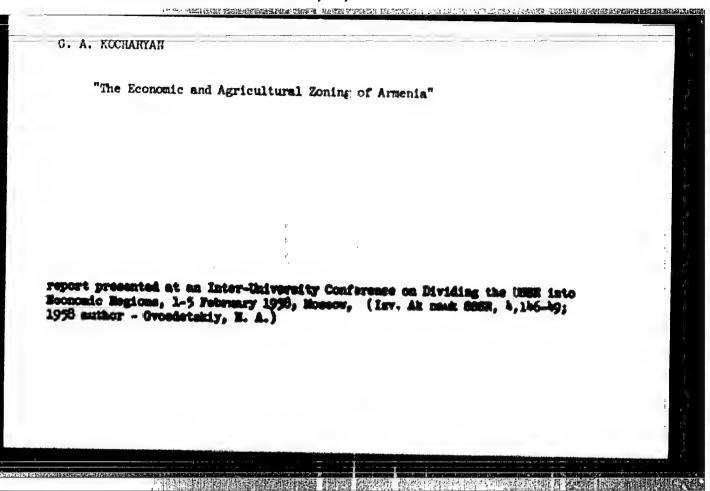


ERZHIZHAMOYSKIY, O.M., akademik; ATVAZYAN, V.G.; ALAMPIYEW, P.M.;
BUTANOYSKIY, M.S.; VARAZANOY, S.Ia.; WHITS, V.I.; GUVIN, F.F.;
DYMITHASHEO, N.V.; KARAUIOV, H.A.; MCHARYAM, Q.A.;
KRISSKIY, S.W.; LIB MONY, M.M.; MURZAYEV, E.M.; FEL DMAR, M.P.;
SHCHEMORLIYAM, P.O.; RRISTOY, V.S.

Sukia: Efremovich Manaserian; obituary. Isv.AM SSSR. Ser.geog.
no.5:143-144 S-O '56. (M.RA 9:11)

(Manaserian, Sukias Efremovich, 1881-1956)



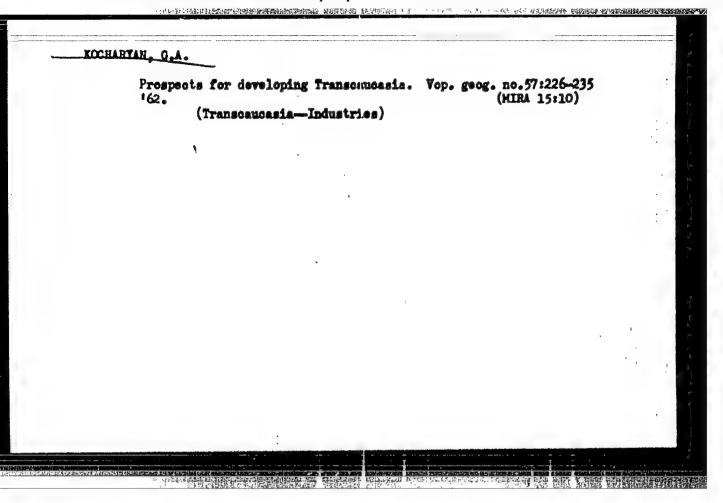


STAN TERM EXEMPLY LINE FOR THE PROPERTY PROPERTY PROPERTY PARTY.

STEPANYAH, L.A., red.; ARUTYUNYAH, A.B., red.; BAGDASAKYAH, A.B., prof., doktor geogr. nauk, glav. nauchgy red.; DAVTYAN, G.S., red.; MARTIROSYAH, G.M., red.; MARUKHTAH, A.O., red.; EKRTCHYAH, S.S., red.; URUSOV, V.V., red.; SHAKHBAZYAH, M.S., red.; ALLAKHVERDYAH, G.O., kand. ekonom. nauk sem glav. nauchmogo red.; ARUTYUNYAK, N.Kh., akademik, red.; VALESYAH, L.A., kand. geogr. nauk, red.; DUL'YAH, S.H., kand. geogr. nauk, red.; YEREMYAH, S.T., red.; ZOGRAHYAH, L.N., kand. geogr. nauk, red.; KOCHARYAH, G.A., prof., red.; POGOSYAH, Kh.P., prof., doktor geogr. nauk, red.; RUTKOVSKAYA, M.S., starshiy red.; SAVELO, A.F., tekhn. red.; YAROSHEVICH, K.Ye., tekhn. red.;

[Atlas of the Armenian Soviet Socialist Republic] Atlas Armianskoi Sovetskoi Sotsialisticheskoi Respubliki. Erevan, Akad. nauk Armianskoi SSR; glav. upr. geodez. i kurtografii MG i CH SSSR, 1961. 111 p. (MIRA 15:2)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723420019-3"



NOCHARYAN, G. S.: Master Phys-Math Sci (diss) -- "Approximations by mesns of rational functions with a given number of poles". Yerevan, 1958. 11 pp (Min Higher Educ USSE, Yerevan State U), 150 copies (KL, No 2, 1959, 117)

# Comparison of Laurent and Fourier series; Isv. Al Ara, SSR, Ser, fis, mat. neak 11 no.1:3-14 158. (NIBA 11:6) 1; Yerevanskiy conderstvennyy universitet. (Fourier series) (Functions, Analytic)

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507/22-11-4-7/11

AUTHOR:

Kocharyan, C.S.

TITLE:

On the Approximation by Rational Functions in a Compler Domain (O priblishenii ratuional'nymi funktsiyami v kompleks-

noy oblasti)

PERIODICAL:

Izvestiya Akademii nauk Armyanskoy SSR, Seriya fiziko-mate-

maticheskikh nauk, 1958,

中国 计图像控制 医阿拉伯氏征 医二种原子 化

Vol 11, Nr 4, pp 53 - 78 (USSR)

ABSTRACT:

The author considers the following problems 1.) The best approximation of functions of a complex variable by rational fractions 2.) Series expansions of the functions in terms of rational fractions. Here the fractions possess poles in given point sets and it is approximated and expanded along curves or in domains which are free of poles. The paper was written under guidance of Dshrbashyan, member of the Academy of Sciences of the Armenian SSR, and starts directly from the numerous investigations of Dzhrbashyan [Ref 1,2,4] . § 1 contains estimations of the deviations between the function on the unit circle and the partial sums of its Pourier series in terms of rational functions, whereby it is admitted that the set of poles possesses points of accumulation on the unit

Card 1/ 2

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723420019-3" On the Approximation by Rational Functions in a Complex Domain

THE R. T. P. LEWIS CO., LANSING MICHIGAN CO., LANSING MICHINES, LANSING MICHIGAN CO., LA

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circle. § 2 gives estimations of best approximations by rational fractions for functions which are analytic in the interior of a Jordan domain, the boundary of which satisfies certain conditions, and which are continuous in the whole domain. Analogous considerations are carried out for continuous functions which are only given on a closed Jordan curve. In § 3 the author carries out under certain restrictions the estimations for the deviations of the partial sums of the series in terms of base systems of rational functions (see Dzhrbashyan [Ref 1]). The approximation is carried out in the closed domain or on a plosed curve. For the transition from the circle to an arbitrary Jordan domain the author uses the method of Al'per [Ref 8] . The results are valid for multiply connected domains. § 4 presents inversion theorems on the approximations by rational fractions. The paper contains one lemms and 13 theorems.

There are 9 references, 5 of which are Soviet, and 4 American. ASSOCIATION: Yerevanskiy gosudarstvennyy universitet (Yerevan State

University)

March 18, 1958 SUBMITTED:

Card 2/2

35302

\$/022/62/015/001/002/007 D237/D301

16.4100

AUTHOR z

Kocharyan, G. S.

TITLE:

On the optimally-weighted approximation by means of

rational functions on the whole real axis

PERIODICAL:

Akademiya nauk Armyanskoy SSR. Izvestiya. Fiziko-mate-maticheskiye nauki. v. 15, no. 1, 1962, 73-86

TEXT: Let p(x) > 0 be an even function, defined, continuous and monotonically increasing over  $-\infty$  (x (+  $\infty$ ), and let  $\lim_{x \to \infty} p(x) = +\infty$ .

Let  $L_2/\bar{p}(x)$  be a class of functions f(x) defined and measurable on the whole axis  $(-\infty, +\infty)$  for which

$$\int_{-\infty}^{+\infty} e^{-p(x)} |f(x)|^2 dx < + \infty$$

Card 1/6

8/022/62/015/001/002/007 D237/D301

On the optimally-weighted ...

Also let  $\{a_k\}$   $(J_m a_k > 0, k = 0, 1, 2 ...)$  by any complex sequence and  $\{R_n(Z)\}$  - the associated system of rational functions of the type

 $R_{n}(z) = \frac{P_{n}(z)}{\prod_{k=0}^{n} (z + \alpha c_{k})}$ (1)

where  $P_n(Z)$  - a polynomial of degree not higher than n. Then, the following theorem, communicated to the author by M. M. Dzhrbashyan, holds: If

Card 2/6

On the optimally-weighted ... S/022/62/015/001/002/007

$$\int_{1}^{\infty} \frac{p(x)}{x^{2}} dx = +\infty, \qquad \sum_{k=0}^{\infty} \frac{Jm\alpha_{k}}{1 + |\alpha_{k}|^{2}} = +\infty$$
 (2)

is satisfied simultaneously, then the system  $\left\{R_n(Z)\right\}$  of rational functions is complete in the class  $L_2/\bar{p}(x)7$ . The author investigates the relation between the order of vanishing of best approximations by the functions of the type (1) and differential properties of the approximating function, and gives the solution of the converse problem of the best approximation, obtaining the estimation of the order of growth of  $\left\{R_n^*(x)\right\}$  if

$$\sup_{-\infty \, \langle \, x \, \langle + \, \infty \,} e^{-p(\, x \,)} \, \left| \, R_n(x) \right| \, \langle \, + \, \infty$$

Card 3/6

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On the optimally-weighted ...

\$/022/62/015/001/002/007 D237/D301

by the method of M. M. Dzhrbashyan. The main theorem stated and proved by the author is Theorem 1: Let a rational function

$$R_n(z) = \frac{P_n(z)}{\prod_{k=0}^{n} (z + i\lambda_k)}$$

(3)

satisfy the condition

$$|R_n(x)| \leq e^{p(x)}, \quad -\infty \langle x \langle +\infty \rangle$$
 (5)

Card 4/6

On the optimally-weighted ...

S/022/62/015/001/002/007 D237/D301

Then, for any  $\theta(0 \leqslant \vartheta \leqslant 1)$  and  $a(0 \leqslant a \leqslant q(\rho_n))$ , in the region  $|y| \leqslant \vartheta \lambda_0$ , the inequality

$$\left|R_{n}(x+iy)\right| \leqslant e^{p(|x|+a)} e^{|y|Y_{n}(x)}$$
(6)

where  $Y_n(x)$  - a determinable even function, is true. The author notes that the proof of the direct problem of the best approximation cannot be obtained by existing methods and expresses his gratitude to Academician of the AS ArmenianSSR, Professor M. M. Dzhrbashyan for proposing the problem and for valuable help. There are 7 references: 5 Soviet-bloc and 2 non-Soviet-bloc. The reference to the English-language publication reads as follows: S. Isumi and T. Hawata, Quasi-analytic class and closure of  $\{t^n\}$  in the interval  $(-\infty, +\infty)$ . Tohoku Math. Journ., 43, 1937.

Card 5/6

On the optimally-weighted ...

S/022/62/015/001/002/007 D237/D301

ASSOCIATION:

Yerevanskiy gosudarstvenny universitet (Yerevan State University)

SUBMITTED:

October 23, 1961

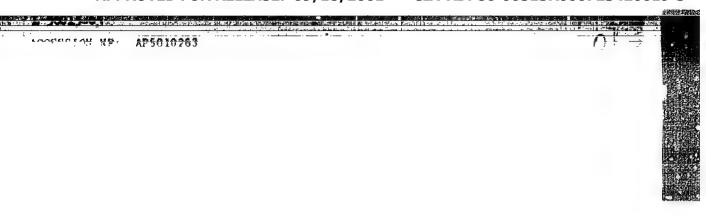
Card 6/6

SAYADYAN, A.G.; Kochardan, K.S.; Azizyan, A.G.; Kazaryan, Zh.A.

Preparation of polyvinyl formal ethylal from aqueous dispersion of polyvinyl acetate. Part 2: Effect of the conditions of hydrolysis of aqueous dispersion of colyvinyl acetate on the quality of polyvinyl formal ehtylal. Jzv. AN Arm. SSR. Rhim.nauki 17 no.6:699-702 %4.

(MIRA 18:6)

1. Yerevanskiy politekhnioteskiy institut imeni Karla Marksa, kafedra tekhnologii cenovnogo chlanicheskogo sinteza.



ACC NR AN7006287 BOURCE CODE: UR/9005/67/000/030/0003/0003 AUTHOR: Kocharyan, N. (Corresponding member ANAR, Head ORG: none TITLE: Physics in the Armenian SSR Kommunist, no. 30, 04 Feb 67, p. 3, col. 1-5 SOURCE: TOPIC TAGS: physics, scientific institution. Org ABSTRACT: A description is given of the work of the Central Scientific-Research Laboratory of the Academy of Sciences Armenian SSR in polymer physics, metal physics, and the physics of magnetic phenomena. The laboratory currently has 95 staff members, of which 18 are Candidates of Sciences in the basic specialties of the laboratory; 15 are Aspirants in graduate school, and 7 are serving apprenticeships in leading scientificresearch institutes of the Armenian SSR. The Physicotechnical Institute of the Academy of Sciences Armenian SSR is being built not far from Ashtarak. The Central Scientific-Research Laboratory will become a part of the new Physicotechnical Institute in 1967. UDC: none [NC] SUB CODE: 20/ , SUBM DATE: none/ ATD PRESS: 5115 05 UDC none

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ACC NR: AP6002675

(A) SOURCE CODE: UR/0252/65/041/004/0216/0220

AUTHOR: Kocharyan, H. M. (Corresponding member AN ArassR); Rapyan, Yu. A; Besirganyan, P. A.

ORG: Gentral Physical-Technical Scientific-Research Laboratory, AN ArmSSR (Tsentral'maya fisike-tekhnicheskaya nauchno-issledovatel'skaya laboratoriya AN ArmSSR); Yerevan State University (Kerevanskiy gosudarstvennyy universitet)

TITLE: Dependence of the X-ray diffraction pattern of high molecular compounds on the thickness of the sample

SOURCE: AN Armser. Doklady, v. 41, no. 4, 1965, 216-220

TOPIC TAGS: chloroprene, x ray diffraction pattern, crystal structure analysis, rubber

ABSTRACT: The thickness of a sample of chloroprene caoutchous MARIT affected the X-ray diffraction patterns taken to determine its structure. The diffraction pattern obtained from thick film (1.65 mm) had only one intense halo typical of amorphous bodies. A noticeable decrease in intensity of the diffraction halo and the appearance of a wide ring were observed in the pattern taken from a sample 0.95 mm thick. The pattern

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ACC WR: AP6002675

of a sample 0.5 mm thick was characterized by the appearance of diffraction rings typical of the crystalline phase, by splitting of the wide ring into three separate rings and by further decrease in intensity of the diffraction halo. At a thickness of 0.13 mm, the diffraction halo almost disappeared and the intensity and number of rings, indicating crystallinity, increased, It seemed that the percentage of erystalline phase in the film depended on its thickness. However, an investigation of samples consisting of several layers of this films (0.13 mm) out by a resor blade from the same thick film disproved this conclusion. The X-ray diffraction patterns of these samples showed that, with an increased number of layers, the intensity of lines characterising the crystalline phase decreased; and in samples censisting of 10 layers the diffraction pattern suggested an asorphous structure. It was therefore concluded that intensities of lines characteristic of amorphous and erystalline phases of caoutchous MARIT depended on the thickness of the sample. The thin emples should be studied for the detection of the crystalline phase. When determining the percentage content of orystalline phase in the sample, the effect of emple thickness on the relative amount of lines characterizing amorphous and crystalline phases should be taken into consideration. Orig. art. has: 11 fig.

SUB CODE: 11/ SUBM DATE: none/ ORIG REF: 002 Card 2/2 ULR

Paints based on synthetic materials. Prom.Arm. 4 no.5:46-47 (NURA 14:8)

1. Glavnyy inah. Terevanskogo savoda lakov i krasok. (Paint)

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KOCHARYAN, K.S.

Morphological and biochemical investigation of blood and the cerebrospinal fluid in nonpenetrating craniocerebral injuries. Isv. AN Arm. SSR. Biol. nauki 13 no.3:73-79 Hr '60. (MIRA 13:8)

1. Kafedra obehehey khirurgii Yerevanskogo meditsinskogo instituta.
(BRAIN...CONCUSSION) (CERREROSPINAL FLUID)
(BLOOD...ANALYSIS AND CHEMISTRY)

KOCHARYAN, N. M.	- P
"Hessurements of the Soft and the Eard Components of Cosmic Ray by Hesns of the Ionised Chamber," 8, No.1, 19th Journal of Physics.	And the second
	TO THE RESERVED AND ADDRESS OF THE PERSON ADDRESS OF

CIA-RDP86-00513R000723420019-3" APPROVED FOR RELEASE: 09/18/2001

\*Soft Components of Commic Rays at an Altitude of 3250 m,\*

Zhar. Pis., 63, No.1, Vol. 8, 1964

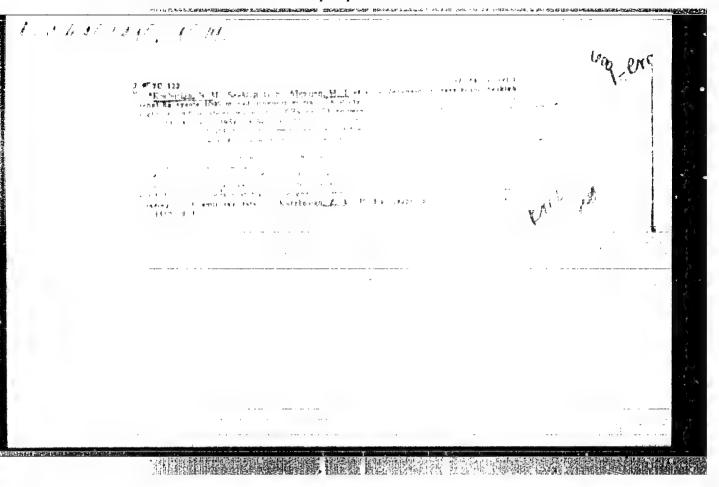
Yerevan State U.

KOCHARYAN, N.N.; SAAKYAN, G.S.

Fonionisation losses of high-energy protons. Dokl. AF Arm. SER. 15 no. 3165-70 152. (MERA 9:10)

1. Merevanskiy gosudarstvennyy universitet imeni V.M. Molotova. Predstgyleno A.I. Alikhanyanom. (Phetoma)

KOCHARYAN, N.M.: AYVARYAN, N.T.: KIRAKOSYAN, E.A.: KATTNAROV, S.D. Investigating the spectrum of meson masses at an altitude of looce. above sea level. Dokl. Al Arm. SER. 15 no.2133-39 152; (NIBA 9:10) 1. Institut fisiki Akademii namk Armyanskey SSR. Prodetavleno A.I. Allidianyanou. (Mésons)



### "APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000723420019-3

PUMITILITY OF TH

Cosmic Rays, Secondary Cosmic Radiation (226)

Dokl. AN Arm. S3R. Vol 16, No 2, 1953, pp 39-43. "Angular Distribution of Protons."

The magnetic mass-spectrometer (A. Alikhanyan, A. Alikhanov, A. Vaysenberg. Dokl. AN Arm. SSR, Vol 5, 1946, p:129) was used to study the angular distribution of protons of cosmic rays at 3200 meters above sea level in the interval of senith angles (theta) from 0 to  $45^{\circ}$ . Employing the dependence of the intensity of the particles upon the angle theta in the form y = yecos<sup>20</sup>, the authors found that for protons with momenta from 7.108 ev/c, a = 6° approximately; and for protons with momenta greater than 0.108 ev/c, a = 3. No assumthal asymmetry of the protons was observed. Harder mesons have smaller a than protons for the same interval.

50: Referativnyy Zhurnal--Fisika, No 1, Jan 54; (V-30785, 28 July 1954)

CROSS 1 1 5 Company of the Company o

KOCHARTAN, H.M.; ATVAZTAN, M.T.; KIRAKOSTAN, E.A.; KATTMAZOV, S.D. Spectra of proton impulses at 3200 m. altitude above sea level.

中心性疾病 脂肪性的肾髓性肠炎病病性细胞肿疾病病毒 使病毒症期 器的性质性

Dokl. AM Arm. 88R 17 no.2133-37 153. (MERA 8:2)

1. Fisioheskiy institut Akademii nauk Armyanskoy SER. Predstavleno Y.A.Anbarteunyanon, (Protone)

CONTAIN, N. N.

2792. KOCHARYAN, N. M. Protonnaya i Mesonnaya Kosponenty Kosmicheskogo Islucheniya Ma Vysote 3200 M Med Urovnem Morya. M., 1954. 12s. 22sm. (Akad. Mauk SSSR. Fis. In-t Im. P. M. Lebedeva), 100 eks. Bespl-(54-56114)

SO: Letopis' Zhurnal'nyth Statey, Vol. 42, Moskva, 1949

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723420019

KOCHARYAN, N.N., KATTHAROV, S.D.

Calculation of the illuminating power of magnetic mass spectrometers. Isv. AN Arm. SER Ser. FMRT nauk 7 no.2:43-50 Mr-Ap 154.
(MLRA 8:3)

公子以来是国际特色的政治中的经验的各种的基础的未来的。这个是中国的经历,这个主要不同的证明,这个主要不同的证明的证明,这一个是这种的政治的主要的对象的。这一个是

 Fisioheskiy institut AF Armyanskoy SSR. (Mass spectrometry)

KOCHARYAN, N.M.

USSR/Nuclear Physics

Card 1/1 Pub. 22 - 12/48

Authors

: Kocharyan, N. M.

Title

: The process of nuclean absorption in lead

Periodical : Dok. AN SSSR 98/3, 369-372, Sep 21, 1954

Abstract

: The study of the process of nucleon absorption in lead, by means of an improved magnetic spectrometer, is described. The two variants in which the above measurements were carried out are listed. Results showed that by colliding with a light nucleus the high energy nucleur loses 1/3 of its enermy for the formation of a-mesons and low-energy protons; the remaining 2/3 energy of the primary nucleon is carried away by the one fast nucleon which is formed during the absorption process. Eight references: 5-USSR and 3-USA (1946-195°). Drawings.

Institution: Academy of Sciences Arm-SSR, Physics Institute

Presented by: Academician A. I. Alikhanov, April 26, 1954

#### KOCHARYAN, Norayr Markarovich

(Physics Inst Acad Sci Armenian SSR)
Academic degree of Doctor of Physical and Mathematical Sciences,
based on his defense, 3 January 1955, in the Council of Physical
Inst imeni Lebedev, Acad Sci USSR, of his dissertation entitled:
"The proton and meson components of cosmic radiation at an altitude
of 3200 meters above sea-level."

Academic degree and/or title: Doctor of Sciences

SO: Decisions of VAK, List no. 222, 12 Nov 55, Byulleten' MYO SSSR, No. 19, Oct 56, Moscow, pp. 13-24, Uncl. JPRS/NY-536

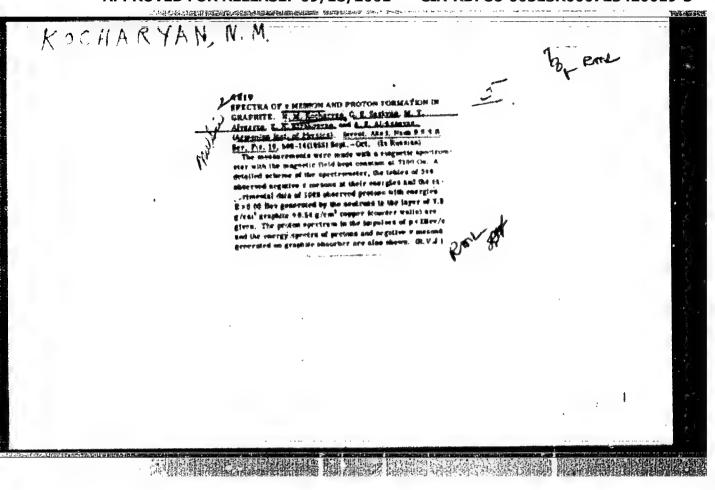
ECCHARTAN, N.M.; SAAKTAN, G.S.

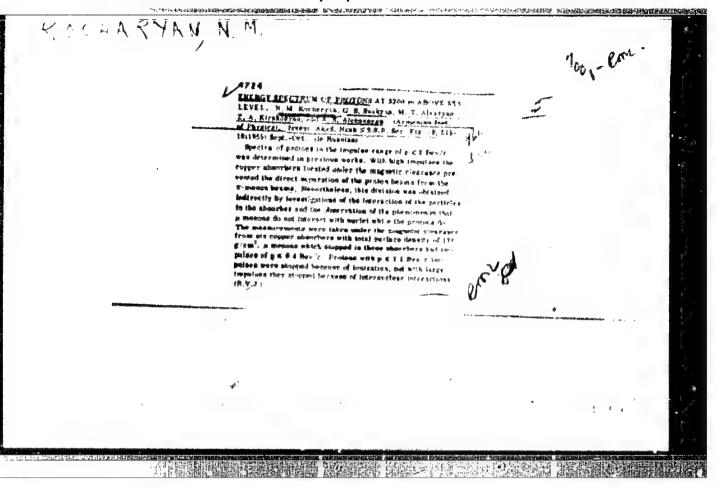
Spectra of proton creation in air and lead. Isv. AN Arm. SER Ser. FRONT mank 8 no.1:15-20 Janf '55. (NIZA 8:6)

1. Terevanskiy gosudarstvennyy universitet im. V.M.Meleteva. (Protens-Spectra)

## "APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000723420019-3





EUCHARTAN, N.N.; AYVARTAN, N.T.; KIRAKOSTAN, Z.A.; ALMERANTAN, A.S.

Impulse spectrum of M-mesons at an altitude of 3200 meters above sea level. Dokl. AN Arm. SER. 20 no.5:169-175 "55. (MIRA 8:7)

1. Institut fixiki Akademii nank Armyanskoy SER. Predstavleno A.L. Shaginyanom. (Mesons)

#### KOCHARYAN, N.M.; SAAKYAN, G.S.

Meson and electron generation in the lower atmospheric layers. Dokl. AF Arm. SSR 21 no.1:11-14 '55. (MIRA 8:11)

1. Institut fiziki Akademii nauk Armyanskoy SSR. Predstavleno A.L. Rhaginyanom (Mesons) (Cosmic rays)

## "APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000723420019-3

Kocharyan, N.M.

Card 1/1 Pub 146-4/25

Card 1/1

Author

: Kocharyan, N. H.

Title

: Proton component of commic radiation at an altitude of 3200 meters above

sea level

Periodical: Zhur. eksp. i teor. fiz. 28, 160-170, February 1955

THE PERSONAL PROPERTY OF THE P

Abstract

: The author obtains the impulse spectrum of protons in the range of momenta 0.4 p 2 Bev/c at an altitude of 3200 meters above sea level. He determines the flight and absorption of a flux of protons in air and in lead. He investigates the spectrum of generation of protons in lead. Seventeen

references.

Institution: Physics Institute, Academy of Sciences of /rmenian SSR

Submitted: February 8, 1954

STATE OF THE PROPERTY OF THE P

KOCHARYAN, NoNe; DURGARYAN, A.A.

Dusign of new Geiger-Miller type counters and study of their properties.

Name toucher Name up h8 po.2171-78 155. (MIRA 919)

Hauch.trudy Brev.un. 48 no.2171-76 155. (Buclear counters) (Geiger-Hiller counters)

· 5 C. F. C. 1918年11月1日 - 1918年11月1日 - 1918年11日 - 1918

M. Kocharyan, G. R. Saakyan, M. T. Alvaryan, E. A. Kirokoayan bid A. B. Alekanyan, Admerical Cept. of Christian Doklady Akad, Nauk 8,5.8.R. 105 1454 7 1935; Nec 8; A special study of proton and r-meson formation spectra produced by scutzens in graphies, sis minum, copper and lead was carried out. The measurements were taken at high elevation, is a magnetic spectrometer. The magnetic field intensity was taken at 7100 gauss, and a field of 10 + 17 8 . 69.1 cm. A Mg/cm lead absorber (to absorb the electronphoton componental was pieced over the installation and a Og/em! graphite absorber was placed underneath. ( opper shearbers of 10.6; 18.3; 23.1, 36.4, 32.9, and 33.0s. cm' were distributed in the magnet clearances. The experiments recarded 500 s mesons with E = 510 Mev. Tabulations of these mesons, according to their energy range, are given. The phenomena of star formation, the nuclear scattering and the disappearance or stopping of particles were observed during the studies of the particle suclear interactions in the copper absorber. (B.V.F.)

Category : USSR/Nuclear Physics - Cosmic rays

C-7

Abs Jour : Ref Zhur - Fizika, No 1, 1957, No 648

Author : Kocharyan, H.M., Saskyan, G.S., Ayvazyan, M.T., Aleksanyan, A.S., Kirakosyan,

Z.A.

Inst : Phys. Inst. Arm. 88R Acad. of Sciences

Title :: Muclear Interactions of High Energy Protons in Copper.

Orig Pub : Dokl. AN SSSR, 1956, 107, No 5, 668-670

Abstract : A cosmic ray spectrometer was used to determine the cross sections of

interactions between protons with an average energy of 12 Bev and copper

nuclei:

Energy range, Bev	Cross Section, Barns
0,91-1,38	0,755 0,14
1,38-2,38	0,676 0,07
2,38-5,50	0,750 0,09
5,50-00	0,01 0,19

The authors determined earlier that for T-mesons the cross section equals the geometric cross section for energies greater than 1 Bev.

Card : 1/1

Energy spectrum of M-mesons at 3200 meters above sea level.

Dokl. AM Arm. SER 24 me.2149-52 157. (NIBA 1014)

1. Finisheskiy institut Akademii nauk Armyanakoy SSR i Terevanskiy gosudarstvennyy universitet. Predstavlene A.I.Alikhanyanom. (Mesons) (Spectrum analysis)



"Interaction of Protons With Lead Muclei in the Energy Range 0.89-15 Bev," by N. M. Kocheryan, Corresponding Member, Academy of Sciences Armenian SSR, and R. B. Begzhanov, Physics Institute, Academy of Sciences Armenian SSR, Dokledy Akademiya Nauk Armyanskoy SSR, Vol 25, No 1, 1957, pp 3-6

The total cross section for the inelastic interaction of protons with lead nuclei was measured at the Alagez cosmic ray station. Proton energies ranged from 0.89 to 15.0 Bev. The cross section was found to be approximately 1,740  $\pm$  90 millibarns. The authors conclude from the data that the cross section for the inelastic interaction of  $\pi$ -mesons with lead nuclei is 1,920  $\pm$  100 millibarns over the energy range 0.8-16 Bev.

Experimental technique and apparatus are described.

Z. A. Kinrakosyan, Kh. B. Pachadshyan, and A. S. Aleksanyan assisted in the measurements. (U)

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BERZHAHOV, R.B.; KOCHARYAN, doktor-prof., nauchnyy rukovoditel'

[Interaction cross sections of the high energy II-mesons and protons with lead nuclei and production spectra of these particles; abstract of a dissertation submitted for the degree of candidate of physical and mathematical sciences] Sachénila vsalmodeistvii II-mesonov i protonov bol'shikh energii s iadrami svintsa i spektry generatsii etikh chastits; avtoreferat dissertatsii, predstavlennoi na soiskanie uchenoi stepeni kandidata fisiko-matematicheskikh nauk. Erevan, Erevanskii gos.univ., 1958. 13 p. (MIRA 12:4)

1. Chien-korrespondent AM ArmSER (for Kocharyan). (Muclear physics)

KOCHAHYAH, H.M.; ALEKSANYAN, A.S.; FACHADZHYAN, Kh.B.; LEVONYAH, B.TS.

Studying the operation of bubble chambers containing binary mixtures.

Dokl.AN Arm.SSR 27 no.4:217-220 ' 58. (MIRA 12:1)

1. Chlen-korrespondent AN Armyanskoy SSR (for Kocharyan). 2. Figi
cheskly institut AN Armyanskoy SSR.

(Bubble chambers)

KOCHARYAN, E.M.; ALEKSANYAN, A.S.; PACHADZHYAN, Kh.B.; LEYOBYAN, E.TS.

Investigating the operation of a bubble chamber with yarious finary mixtures. Freom-12 and carbon dioxide. Dok1.AN Arm.

SSR. 27 no.5:283-265 '58. (MIRA 12:5)

1. Fisicheskiy institut AN ArmSSR. 2. Chlen-korrespondent AN ArmSSR (for Kocharyan). (Embble chamber)

21(0).
AUTHORS:

Kocharyan, N. M., Saakyan, G. S., Kirakosyan, Z. A.

Energy Spectra and Nuclear Interactions of Cosmic Ray
Particles (Energeticheskiye spektry 1 yadernyye vzsimodeystviya
chastits kosmicheskogo islucheniya)

以下,此时也不会能理學的性理學的**是不是不知识的**的情况,然后都不是知识。

PERIODICAL: Zhurnal eksperimental'noy i teoreticheakoy fiziki, 1958, Vol 35, Hr 6, pp 1335-1349 (USSR)

In the present paper the authors published results obtained by their investigations of cosmic particles carried out in 1953-1956 at the laboratory of the Aragats mountain station (3200 m above sea level). The energy spectra of much and protons were investigated by means of a magnetic spectrometer (Fig 1). The accuracy of momentum measurement was great compared with that of previous measurements (Refs 1,2). The energy distribution of protons and muchs (nuclear interaction in C-,Cu, and Pb-absorbers) up to 100 Bev was investigated. Experimental results are shown in detail by tables. Those obtained by the two series of experiments carried out for the purpose of determining much energy distribution are given by tables 1 and 2. Figure 2 shows the differential and integral energy spectra within the range of 1 - 100 Bev (diagram). For E>4 Bev the following applies with respect to much energy distributions:

Card 1/3

ABSTRACT:

SOV/56-35-6-3/44

Energy Spectra and Nuclear Interactions of Cosmic Ray Particles

 $n_{\mu}(E)dE = 0.5(E+5)^{-3}dE$  (for E<2BeV see reference 2). The proton energy spectrum was also investigated, but in four series of experiments, and the following was obtained for E>3 BeV:  $n_{\mu}(E)dE = 3.2.10^{-3}(2+E)^{-2.8}dE$ 

Here E denotes the kinetic energy of protons in Bev. Details of the investigations are given by tables 3 and 4. Figure 3 shows the course of the differential proton energy spectrum (diagram). Further, the inelastic nuclear interaction cross sections of pions and promotons in copper, graphite, and lead were investigated. Results are shown by table 5 (for W -mesons in copper; with increasing energy accuracy decreases sharply). Table 6 shows the same for particles with a positive charge. Table 7 shows the results of cross section measurements for W -mesons in copper, table 8 the total inelastic interaction cross sections for protons in copper. Tables 9 and 10 give the results obtained by investigations of inelastic cross section measurements for W -mesons and protons respectively in lead. Measuring results lead to the following conclusions:

1) The inelastic nuclear interaction cross sections of pions and protons within the emergy range of 1 to several 10 Bev are equal

Card 2/3

SOV/56-35-6-3/44

. Energy Spectra and Muclear Interactions of Cosmic Ray Particles

and independent of energy within the limits of measuring accuracy.

2) For a geometric cross section in matter of  $\sigma_0 = (1.4.10^{-13})^{2}$  (the nucleus does not behave as a black body with respect to pions and protons with E>1 Bev)  $\sigma_0 = 0.65 \, \sigma_0$  holds for graphite,  $\sigma_0 = 0.75 \, \sigma_0$  for copper, and  $\sigma_0 = 0.9 \, \sigma_0$  for lead.— There are 3 figures, 10 tables, and 23 references, 7 of which are Soviet.

ASSOCIATION:

Pizicheskiy institut Akademii nauk Armyanskoy SSR

(Physics Institute of the Academy of Sciences, Armyanskaya SSR)

SUBMITTED:

June 7, 1958

Card 3/3

KOCHARYAN. N. M.

"Energy spectrum of cosmic radiation" Protons: N. M. Kocharyan, C. S. Saakyan, Z.A. Kirakosyan

In 4 independent experiments, the proton spectrum from 40 Mev to 66 Bev was measured at an altitude of 3200 m above sea level by means of the Alikhanyan-Alikhanov magnetic spectrumeter.

In the energy range E 3Bev, the differential spectrum is approximated by the following power function:  $K(E) dE = 3.2 \times 10^{-3} (2+E)^{-2} \cdot \text{PdE},$ 

where E is the proton kinetic energy expressed in Bev. The obtained spectrum is compared with the primary radiation spectrum.

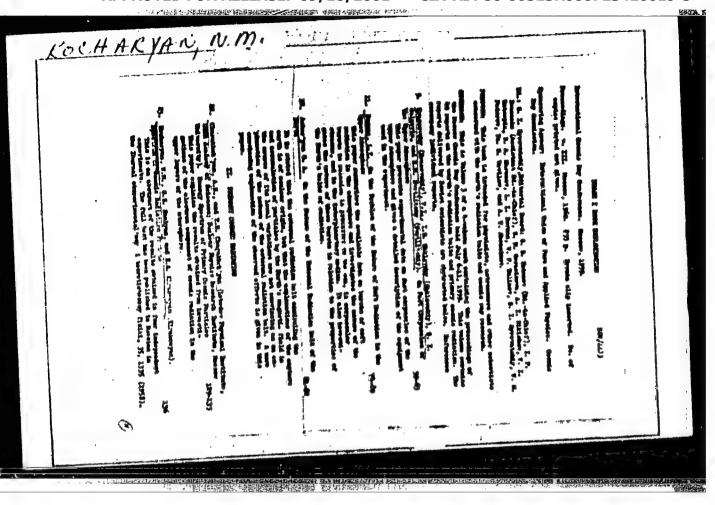
report presented at the International Cosmic Ray Conference, Moscow, 6-11 July 1959

# KOCHARYAN, W.M.; KIRAKOSTAN, Z.A.; SHAROYAN, E.G.; PIKALOV, A.P.

Polarization of 4 mesons of cosmic radiation under the earth. Dokl.

AN Arm. SSR 29 no.1:17-21 59. (MIRA 12:11)

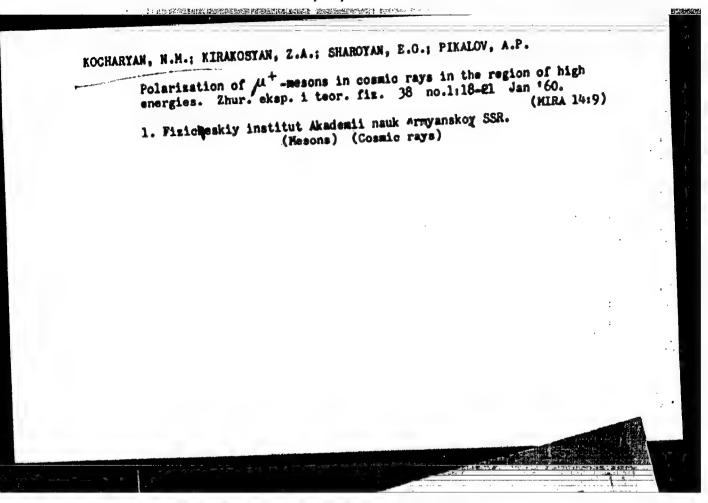
1. Fisicheskiy institut Akademii nauk Armyanskoy SSR. 2. Chlen-korrespondent AM Armyanskoy SSR (for Kocharyan). (Mesons)



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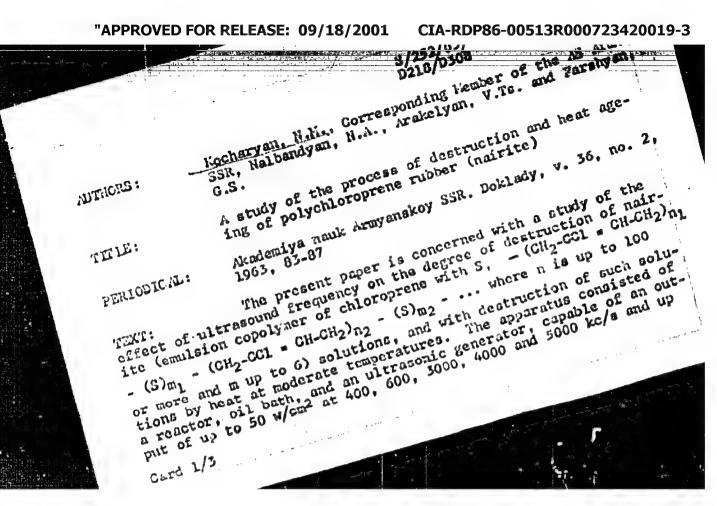
Investigating the sensitivity of a bubble chamber as related to low pressure. Dokl.AM Arm.83R 30 no.2:87-91 (MIRA 13:6)

1. Chlen-korrespondent AM Armyanskoy SSR (for Kocharyan). (Ionisation chambers)



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A study of the process ...

S/252/63/036/002/002/003 D218/D308

100 w/cm² at 800, 1000, 1500 and 2000 kc/s. The temperature was kept constant at 20°, to 1°C. Degree of destruction was assessed by rel. viscosity, measured at 20 ± 0.1°C with Ostwald's viscometer. The acoustic power used was 17 w/cm², and each frequency was tried for 15, 30, 45, 60 and 90 min; nairite concentration was 0.75%, in benzene. It was found that the viscosity  $\eta_{\rm t}$  after t minutes of sounding is

 $\eta_t = (\eta_0 - \eta_\infty)e^{-\beta t} + \eta_\infty. \tag{1}$ 

where  $\beta$  is a constant,  $\eta_0$  the initial viscosity and  $\eta_\infty$  the viscosity at t =  $\infty$ . The mol. wt. decreases to a constant value, which depends on frequency and power of the ultrasound; maximum destruction occurs at 800°C. Thermal and oxidative destruction also begins rapidly and settles to a constant level (e.g. 10.5% after 1.5 months at room temperature in the presence of air, and 6.4% in the absence of air). There are 3 figures and 1 table.

ASSOCIATION:

Tsentral'naya nauchno-issledovatel'skaya fizikotekhnicheskaya laboratoriya akademii nauk armyanskoy SSR (Central Scientific Research Physico-Technologi-

Card 2/3

### "APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723420019-3

ACCESSION NR: AP3002L92

8/0252/63/036/005/0277/0279

AUTHORS: Kocharyan, N. H. (Corresponding member); Pachadahyan, Kh. B.

TITLE: Investigation of piesoeffect in polymethylmethacrylate

SOURCE: AN ArmSSR. Doklady, v. 36, no. 5, 1963, 277-279

TOPIC TAGS: polymethylmethacrylate, piezoeffect, piezoelectrical property, electret, polarization, piezoelectrical polymer, piezomodulus, piezoeffect in polarized polymer

ABSTRACT: This information was reported on 16 Nov 1962. In 1960 a group of scientists of the Academy of Sciences, Armenian SSR started a study of the piezo-electrical properties in polymer electrets with a dipole moment. It was established that polymethylmethacrylate (PPMA) and ebonite had the most stable piezoelectrical properties and a high piezoedulus. The term "piezoelectret polymer" was given to the polymers exhibiting piezoelectrical properties in the electret state. It was assumed that the polymer molecular orientation (which resulted in anisotropy in a polarized PPMA) might create an asymmetry sufficient to produce a piezoeffect. The possibility of increasing the piezomodulus in piezoelectrical polymers by the

## ACCESSION NR: AP3002492

orientation of a solidified solution in an electrical field was discussed in an earlier work. Polarisation was achieved by a 6-hour heating at 15µC in direct electrical field with the intensity of about 70 kv/cm. The piezomodulus was measured parallel to the polarisation direction (no piezoeffect was observed in the perpendicular direction nor in the nonpolarized samples). The quality of the electrets obtained was improved gradually by correcting the procedure for their preparation. The electret samples produced in 1962 preserved their piezoelectrical properties for a substantially longer time than the earlier samples. Piezomodulus of the new samples decreased 4-fold during 6 months. "The authors express their appreciation to Sh. A. Mkhitaryan, F. V. Shakaryan and A. A. Agaronyan, members of the group, for their help." Orig. art. hass 2 figures.

ASSOCIATION: Tsentral'naya nauchno-issledovatel'skaya fisiko-tekhnicheskaya laboratoriya Akademii Nauk Armyanskoy SSR (Central Scientific Research Physicotechnical Laboratory, Academy of Sciences, Armenian SSR)

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KOCHARTAN, H.M.; MATSOYAN, S.G.; BARSAMYAN, S.T.; PIKALOVA, V.N.; TOLAR-CHYAN, L.S.; MORLYAN, H.M.

Dislectric loss, dislectric constant, and the effective dipole moment of polydimethylvinylethynylcarbinol. Dokl. AM Arm. BSR 37 (HIRA 16:11) no.1:7-13 163.

l. TSentral'naya nauchno-issledovatel'skaya fiziko-tekhnicheskaya laboratoriya AN Armyanskoy SSR. 2. Chlen-korrespondent AN Armyanskoy SSR (for Kocharyan).

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KOCHARYAN, N.M.; AKOPYAN, A.N.; BARSAMYAN, S.T.; TOLAPCHYAN, L.S.;

PIKALOVA; V.N.

Dielectric properties of chlorinated polytetrachlorohexatriene.
Dokl. AN Arm. SSR 37 no.5:263-267 '63. (MIRA 17:9)

1. Chlen-korrespondent AN Armyanskoy SSR (for Kocharyan).

ACCESSION NR: AP4026382 8/0252/64/038/001/0023/0026

A PART BUCKS AND MANAGEMENT AREA OF A PART OF

AUTHORS: Kocharyan, N. M. (Corresponding member); Moveesyan, M. Ye.; Aslanyan, K. A

TITLE: Investigation in chloroprene rubber aging by means of infrared spectroscopy

SOURCE: AN ArmSSR. Doklady\*, v. 38, no. 1, 1964, 23-26

TOPIC TAGS: aging rubber, rubber aging, carbon tetrachloride, thermal treatment, solar light, sulfur compound

ABSTRACT: The aging of rubber in carbon tetrachloride solution has been studied under solar light, by thermal treatment, and in indoor lighting. Measurements were made in the spectral region 1570-1750 cm<sup>-1</sup>, using the IKS-12 spectrometer with a MaCl prism. In all cases there is a clear indication of the formation of an intermediate state. The sulfur compound with chloroprene polymerisation  $-(CH_2-CG) - (CH_2-CH_3)_n - (S)_n - (CH_3-CG) - (CH_3-CG)_n - (CH_3$ 

ASSOCIATION: Tawl finiko - tekimichenkaya laboratoriya, Akademii namk Armyanakoy SSR (Tawl Physicotechnical Laboratory, Academy of Sciences Armenian SSR)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723420019-3"

ACCESSION HR: AP4037620

\$/0252/64/038/003/0149/0151

AUTHOR: Kocharyan, M. H. (Corresponding member); Bezirganyan, P. A. | Havasardyan, M. A.

TITLE: Crystallinity of Mairit rubber

SOURCE: AN Armser. Doklady\*, v. 38, no. 3, 1964, 149-151

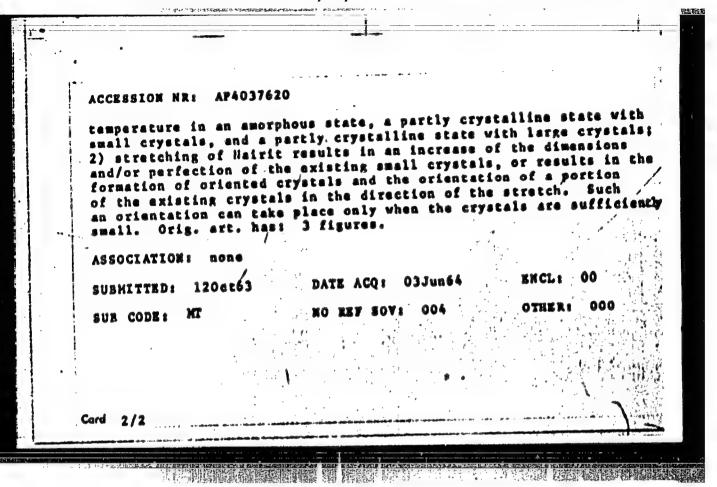
TOPIC TAGS: polychloroprene, Mairit, amorphous Mairit, crystalline Nairit, Mairit stretching, Mairit crystal formation, Mairit crystal orientation

ABSTRACT: In the opinion of numerous Soviet and foreign authors:

1) polychloroprene rubber is amorphous at room temperature and its crystallinity below 15C is negligible; 2) on stretching there is no orientation of already existing crystals but a spontaneous formation of crystals oriented in the direction of the stretch takes place. An x-ray study of Mairit rubber showed that: 1) depending on the polymerization method, Mairit can exist at room:

Cord 1/2

f



KOCHARYAN, N.H.; BARSAMYAN, S.T.; PIKALOVA, V.N.

Dipole moments of vinylethynyloarbonols. Dokl. AN Arm.SSR 38
no.51295-299 '64. (MIRA 17:6)

1. TSentral'naya nauchno-issledovntel'skaya fiziko-tekhnicheskaya laboratoriya AN Armyanskoy SSR.

### "APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723420019-3



That in a hongane adjuston of polystyrene exercis absorption



### "APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723420019-3

